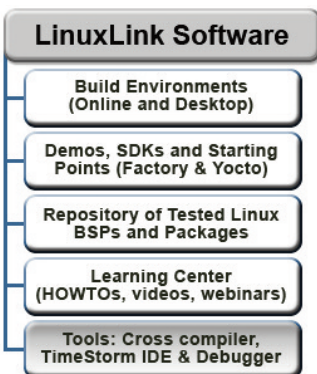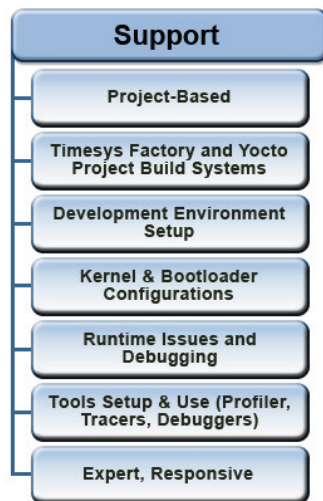# Timesys' Embedded Linux Solutions

Timesys offers products, support, professional services and training for developers building devices based on open source embedded Linux. **Whether using Timesys Factory or the Yocto Project build system,** our wide array of embedded Linux offerings enables developers to leverage the hardware capabilities and processing power of popular processors and development kits.
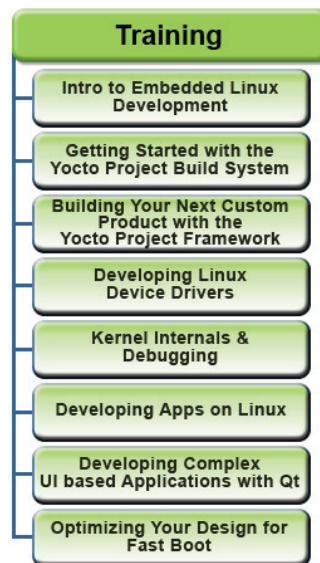
LinuxLink Software — For engineering teams looking to build embedded Linux devices in-house easily, reliably and quickly
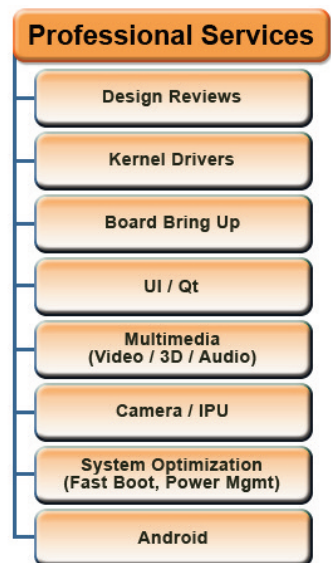
Support — For engineering teams needing expert responsive project-based support throughout the entire product lifecycle

Training — For engineering teams requiring customized on-site or on-line training courses enabling them to immediately apply the lessons to actual development

Professional Services — For engineering teams looking to outsource development work so their teams can focus on building differentiation

LinuxLink Software	Support	Training	Professional Services
Build Environments (Online and Desktop)	Project-Based	Intro to Embedded Linux Development	Design Reviews
Demos, SDKs and Starting Points (Factory & Yocto)	Timesys Factory and Yocto Project Build Systems	Getting Started with the Yocto Project Build System	Kernel Drivers
Repository of Tested Linux BSPs and Packages	Development Environment Setup	Building Your Next Custom Product with the Yocto Project Framework	Board Bring Up
Learning Center (HOWTOs, videos, webinars)	Kernel & Bootloader Configurations	Developing Linux Device Drivers	UI / Qt
Tools: Cross compiler, TimeStorm IDE & Debugger	Runtime Issues and Debugging	Kernel Internals & Debugging	Multimedia (Video / 3D / Audio)
	Tools Setup & Use (Profiler, Tracers, Debuggers)	Developing Apps on Linux	Camera / IPU
	Expert, Responsive	Developing Complex UI based Applications with Qt	System Optimization (Fast Boot, Power Mgmt)
		Optimizing Your Design for Fast Boot	Android

Comprehensive Software Toolset for Platform and Application Development

LinuxLink — Timesys' Award-winning Software Development Framework for Embedded Linux
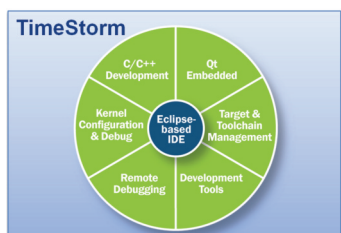
LinuxLink Framework

Web Wizard	Build Engine
BSPs/SDKs	Repository
Starting Points	TimeStorm

Timesys' LinuxLink is the industry's most easy-to-use framework for embedded Linux platform and application development that enables new and experienced developers to quickly build differentiated Linux-based offerings. LinuxLink combines an innovative build system (Factory), pre-tested software and a comprehensive suite of development tools.

- Intended for platform developers, self-starters and evaluations
- Provides pre-built BSP/SDK
- Online rootfs customizations for Factory and Yocto Project builds
- Optimized for ideal workflow, integrates with source control
- Access to Update/Advice services

To learn more about LinuxLink, visit **www.timesys.com/embedded-linux/build-systems**.

yocto™ PROJECT
PARTICIPANT

TimeStorm — Timesys' Eclipse-based IDE for Application Development, Testing and Debugging

TimeStorm

C/C++ Development · Qt Embedded · Kernel Configuration & Debug · Eclipse-based IDE · Target & Toolchain Management · Remote Debugging · Development Tools

TimeStorm provides a suite of powerful development tools that have been cross built, integrated, configured and tested for popular processors and associated development kits. It provides application developers with a toolset that expertly handles embedded chores like cross-compiling and remote debugging while including support for advanced features like profiling, testing and memory leak detection.

- Intended for application developers
- Import Timesys Factory and Yocto Project SDKs
- IDE to edit, cross compile and debug applications
- Kernel configuration, debug
- Loadable Kernel Module (LKM), compile & debug
- Remote tools (Profiler, tracers, debuggers)

To learn more, visit **www.timesys.com/embedded-linux/tools/ide**.

Engineering Expertise When You Need It

Project-Based, Commercial Support

For engineering teams needing expert, responsive support, Timesys offers commercial support throughout all phases of product development. Our support is project-based and is available for development teams building embedded Linux devices based on Timesys' Factory or the Yocto Project based build systems.

- Dedicated support engineers
- 24-hour response time
- Unlimited number of tickets for build, development environment, runtime, kernel configuration,and related issues reproducible on popular development kits
- Project-based packages and pricing
- Extensive documents, videos, demos

To learn more about Timesys' Support offering, visit **www.timesys.com/embedded-linux/support**.

Professional Services — Engineering Expertise for Custom Projects

Whether you need proven Linux expertise, have a tight deadline, have a small team of of engineers, or want to focus on building differentiation, Timesys' Professional services offering can assist you in jump starting your embedded project or by providing a complete turnkey solution.

Our Professional Services menu includes:

- Design review and consulting
- Jump Start Service
- Kernel, Bootloader and Device Driver Development & Porting
- Board Bring Up
- Application Development
- Video, Audio (GStreamer)
- Camera / IPU
- Power Management Optimization
- System Development
- Yocto Development

In addition to the above menu items, Timesys also offers:

- **User Interface Design and Development Services** — Timesys has extensive expertise in developing complex, state-of-the-art user interfaces. We have successfully completed projects requiring hardware acceleration, audio, multimedia (2D, 3D camera and video) and multi-touch with gesturing using open source technologies such as Qt, GStreamer, OpenGL ES and HTML5.
- **Boot Time Evaluation and Reduction Services** — Timesys' engineering team will analyze your project and make recommendations on how your system boot time can be reduced. We can perform boot-time optimizations using open source techniques to achieve a <5 sec. to <1 sec. boot time or offer a commercially supported, licensed solution — **Warp!!** — that can enable "instant'" boot.
- **Yocto Project Consulting and Services** — For developers building devices based on Yocto Project standards, Timesys offers services agreements. We can help you determine whether or not Yocto Project based development is right for your project, assist with or manage your builds in conjunction with the Yocto project roadmap, and we can provide custom product development using the Yocto framework.
- **Android Evaluation and Design Services** — Timesys can help you with all aspects of your Android development. We can analyze your product requirements and make recommendations based on both your teams' Android and Linux experience. Our Design Services range from setup & configuration of your Android development environment and integration of your company's Source Code Management (SCM) system — to kernel optimizations, Android application development and integration of hardware acceleration.

To learn more about Timesys Professional Services, visit **www.timesys.com/professional-services**.

Timesys Corporation Customized Training

Timesys offers customized training that is designed to help you quickly and easily adopt embedded Linux and stay abreast of best practices and new developments. We can develop a training course that is both relevant to your hardware and unique requirements of your project and is based on your development team's experience. Courses include both classroom lecture and hands-on exercises.

Timesys Customized Training Course Topics Include:

- Intro to Embedded Linux Development
- Getting Started with the Yocto Project Build System
- Building Your Next Custom Product with the Yocto Project Framework
- Developing Linux Device Drivers
- Kernel Internals & Debugging
- Developing Applications on Linux
- Developing Complex UI based Applications with Qt
- Optimizing Your Design for Fast Boot

For more details, visit **www.timesys.com/embedded-linux/training/customized-training-courses**.

Have an embedded Linux question or a project you'd like to discuss?

For more information about Timesys offerings for embedded Linux-based development and how we can work with your development team to help you reduce risk and minimize schedule conflicts, call us at **866-392-4897** (toll-free) or **+1-412-232-3250**. Or, email us at **sales@timesys.com**.

Get Your Free LinuxLink Account — Build A Custom BSP/SDK in Minutes

Register for a Free LinuxLink account, and assemble a Linux image that you can download and run on your board. Your free account will also give you access to additional development resources including "HowTo" documentation, code snippets and more. To register, visit **www.timesys.com/register**.

08/2015

timesys®